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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,389	02/27/2004	Edward S. Miller	LVOX.009A	4937
	20995 7590 07/18/2007 KNOBBE MARTENS OLSON & BEAR LLP			INER
2040 MAIN STREET			ABEBE, DANIEL DEMELASH	
FOURTEENTH FLOOR IRVINE, CA 92614		•	ART UNIT	PAPER NUMBER
			2626	
		•	NOTIFICATION DATE	DELIVERY MODE
			07/18/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

	Application No.	Applicant(s)				
	10/789,389	MILLER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Daniel D. Abebe	2626				
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet wi	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION (136(a). In no event, however, may a red will apply and will expire SIX (6) MON (ate, cause the application to become AE)	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.					
3) Since this application is in condition for allows	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.). 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application	n.					
4a) Of the above claim(s) is/are withdra						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,7 and 11-15</u> is/are rejected.						
7)⊠ Claim(s) <u>6 and 8-10</u> is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examin	ner					
10) The drawing(s) filed on is/are: a) ac		hy the Examiner				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the corre	• ,	` '				
11) The oath or declaration is objected to by the E						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig	in priority under 35 11 9 C s	\$ 119(a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	in priority under 35 0.5.0. §	; 113(a)-(a) or (i).				
1. Certified copies of the priority documer	nts have been received					
2. Certified copies of the priority documer		oplication No.				
3. Copies of the certified copies of the price		***************************************				
application from the International Burea						
* See the attached detailed Office action for a lis	, , , , ,	received.				
	·					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Ir 6) Other:	nformal Patent Application				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 7 and 11-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Robinson (5,983,180).

As to claims 1-5, Robinson teaches a method for calculating scores for speech input using grammar (language model), comprising the steps of:

Receiving sequences of phonemes having similarity scores and their corresponding time frame and calculating an accumulated score for the sequence of phonemes...specifically Robinson teaches

A method of automatically recognising data comprising sequential data units represented as sequential tokens grouped into one or more items, the method comprising the steps of:

storing data representing known items as respective finite state sequence models, where each state corresponds to a token and said models having common prefix states are organised in a tree structure such that suffix states comprise branches from common prefix states and there are a plurality of tree structures each having a different prefix state;

comparing each sequential data unit with stored reference data units identified by respective reference tokens to generate scores for each data unit indicating the similarity of the data unit to respective said reference data units;

determining an accumulated score (path score) for a final state in each of a number of the models by

a) sequentially calculating the accumulated score for a model to reach the final state comprising a leaf in the tree,

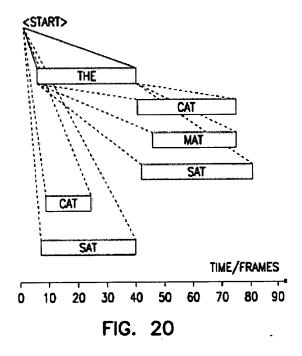
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- b) identifying the closest branch to the leaf corresponding to a next model for which an accumulated score for the final state has not yet been calculated,
- c) accumulating the score from the identified closest branch for the next model to the final state.
- d) repeating steps (b) and (c) for the branches of the tree, and
- e) repeating steps (a) to (d) for the plurality of trees; and

identifying at least the item corresponding to the model having the highest accumulated score.

<u>pruning</u> (reducing) the calculations by halting the accumulation of the scores for any branches where the accumulated score falls below a threshold

As the HMM tree is traversed during the calculation of the accumulated probabilities, the identification of the word having the highest probability is stored or the identification of a number of words having the highest probabilities are stored in a table together with their probability values. (abstract; Fig.10-11; Col.16, lines 25-55).



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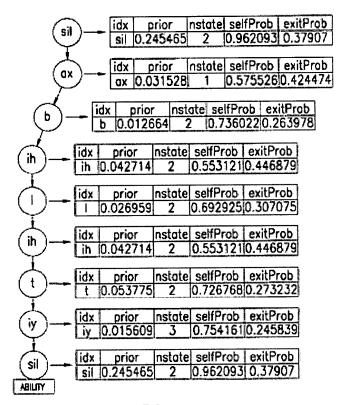


FIG. 11

as to claim 7, Robinson teaches the convention n-gram type language model comprising words and phrases (Fig.7).

claims 11-15 are analogous to the claims above and are rejected by Robinson for the foregoing reasons.

Allowable Subject Matter

Claims 6 and 8-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The following is a statement of reasons for the indication of allowable subject matter: the claims are allowable because, Robinson doesn't teach determining the confidence score and grouping the phrases into concepts as recited in the claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel D. Abebe whose telephone number is 571-272-7615. The examiner can normally be reached on monday-friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on 571-272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Daniel Abebe Primary Examiner A.U. 2626